

CLAIMS

1. An apparatus for winding a wire, wherein an annular guide has a notch for guiding the wire, has an inner peripheral surface whose diameter gradually increases in a direction remote away from the bobbin,

and is disposed so that it can cover one of collars of a take-up bobbin for the wire.

2. An apparatus for winding a wire as defined in claim 1, wherein the annular guide has an engagement portion for preventing the wire from spring out of the bobbin.

3. An apparatus for winding a wire as defined in claim 1 or 2, wherein the annular guide is disposed so that it is movable in an axial direction of the bobbin.

4. An apparatus for winding a wire as defined in claim 1 or 2, wherein the annular guide comprises a plurality of portions which move to form the annular guide.

5. An apparatus for winding a wire as defined in claim 1 or 2, wherein the apparatus comprises a wire positioning device for guiding the cut terminal portion of the wire.

6. An apparatus for winding a wire as defined in claim 5, wherein the wire positioning device comprises

a guide rod for moving the wire and a guide plate for preventing the spring of the wire.

7. A method of winding a wire wherein the method comprises the steps of:

winding a wire on a take-up bobbin;

guiding a cut terminal portion of the wire to a notch of an annular guide which covers one of collars of the take-up bobbin on completion of winding the wire; and

guiding the cut terminal portion of the wire to the outside of the take-up bobbin along the inner peripheral surface of the annular guide whose diameter increases in a direction away from the bobbin.

8. A method of winding a wire wherein the method comprises the steps of:

winding a wire on a take-up bobbin;

guiding a cut terminal portion of the wire to a notch of an annular guide which covers one of collars of the take-up bobbin on completion of winding the wire;

guiding the cut terminal portion of the wire to the outside of the take-up bobbin along the inner peripheral surface of the annular guide whose diameter increases in a direction away from the bobbin; and

engaging the cut terminal portion of the wire with an engagement portion provided on the annular guide by centrifugal force caused by the rotation of the take-up bobbin.

9. A method of winding a wire as defined in claim 7 or 8, wherein the annular guide is moved to cover one of the collars of the take-up bobbin when the winding of the wire is completed.